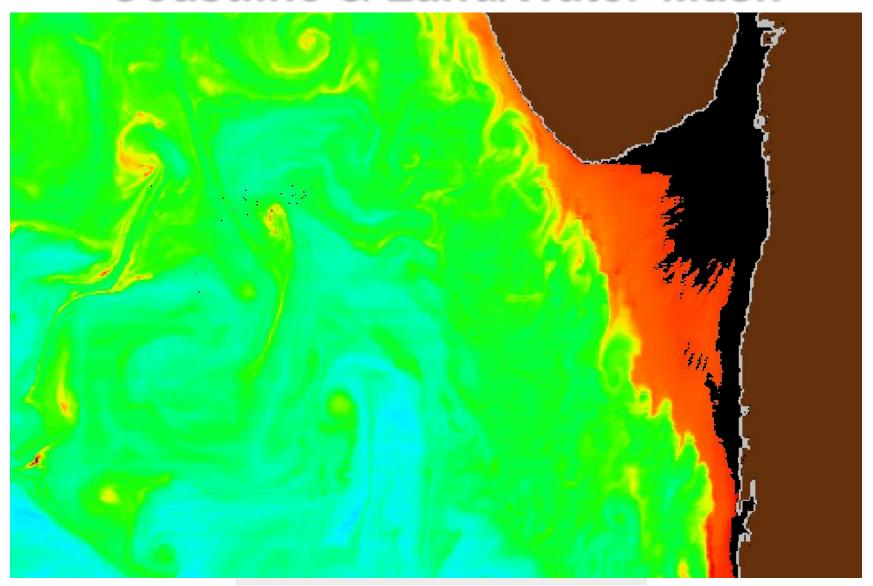


Sean Bailey
05 May 2014
NASA OCRT Meeting

#### **New Since OCRT 2012**

- No longer beta!
  - 7.0 released 22 April 2013
  - 7.0.1 released 22 October 2013
  - 7.0.2 released 14 January 2014
- Support for more missions
  - HICO
  - GOCI
- Improvements to the processing GUIs
- Coastline Land/Water Mask
- Multi-level processor Python script

# **Coastline & Land/Water Mask**



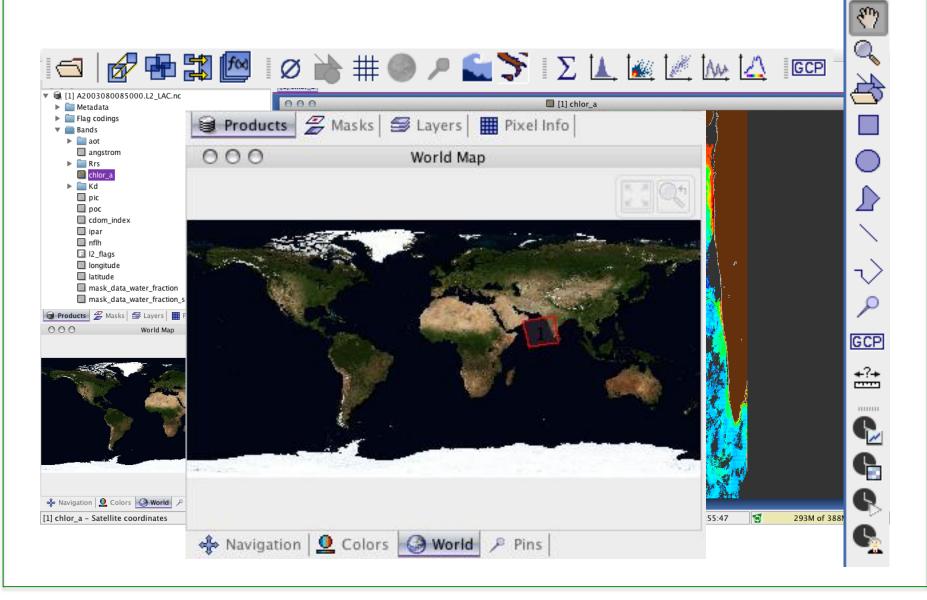
## **Multi-level Processor**

Program	Keep	Params
main		ifile=/Users/dshea/ocssw/test/l2gen/A2002365234500.L1A_LAC
modis_L1A.py		
l1aextract_modis		
l1aextract_seawifs		
geo	✓	
modis_L1B.py	✓	
l1bgen		
l1brsgen		
l2gen	✓	
12extract		
l2brsgen		prod=chlor_a apply_pal=1 outmode=2
l2bin		
l3bin		
smigen		

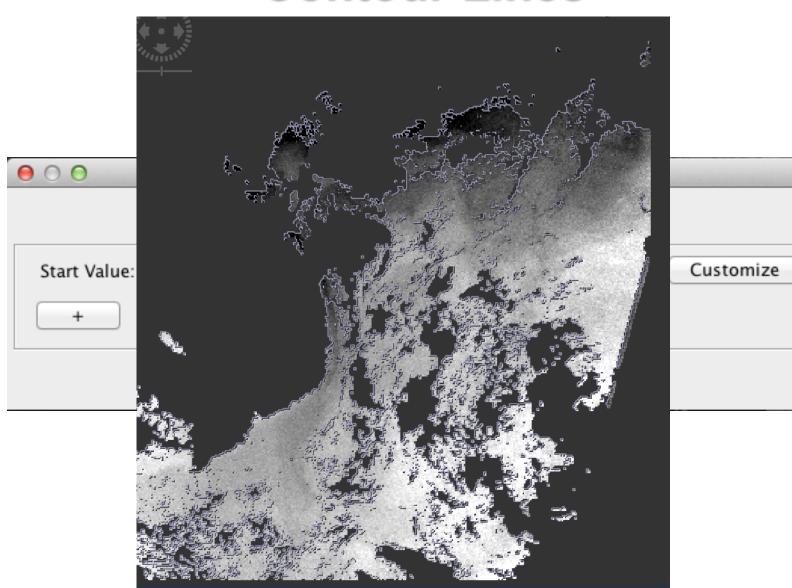
# Version 7.1 - coming your way

- Release to coincide (as closely as possible) with the BEAM 5.0 release and the multi-mission reprocessing (i.e. soon...)
- A new look
  - Updated icons
  - Reorganized menus
- New Features
  - Contour lines
  - Bathymetry
- Support for new netCDF4 files from OBPG
- GUI support for a "new" L3 Bin data access tool -I3bindump

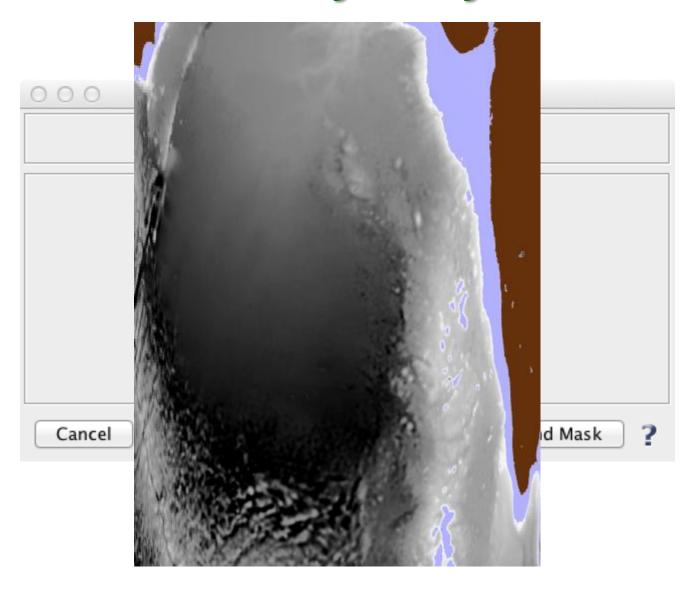
## The New Look



## **Contour Lines**



# **Bathymetry**



# L3bindump

0														
● O O I3bindump Output														
Α					F	G	Н		J		L		N	
bin	center	center	north	south	west	east	n	N	sum	chlor	chlor	mean	stdev	
								1						
19500	39.89	-49.9	39.91	39.87	-49.9	-49.9	16	1	1.550	6.121	4.000	0.38750	0.05549	
19506	39.93	-50.0	39.95	39.91	-50.0	-50.0	12	1	1.608	7.608	3.464	0.46442	0.06572	
19506	39.93	-49.9	39.95	39.91	-50.0	-49.9	14	1	1.729	8.091	3.741	0.46214	0.05383	
19506	39.93	-49.9	39.95	39.91	-49.9	-49.9	17	1	1.863	8.579	4.123	0.45190	0.06412	
19506	39.93	-49.8	39.95	39.91	-49.9	-49.8	12	1	1.525	6.802	3.464	0.44043	0.05100	
19513	39.97	-50.0	40.00	39.95	-50.0	-49.9	3	1	4.918	1.400	1.732	0.28399	0.01705	
19513	39.97	-49.9	40.00	39.95	-49.9	-49.9	9	1	9.889	3.279	3.000	0.32964	0.02699	
19513	39.97	-49.9	40.00	39.95	-49.9	-49.8	10	1	1.074	3.657	3.162	0.33981	0.01456	
19513	39.97	-49.8	40.00	39.95	-49.8	-49.8	1	1	3.340	1.115	1.000	0.33402	0.00000	
19520	40.02	-49.9	40.04	40.00	-50.0	-49.9	1	1	3.316	1.099	1.000	0.33163	0.00000	
19520	40.02	-49.9	40.04	40.00	-49.9	-49.9	18	1	1.412	4.718	4.242	0.33290	0.02035	
19520	40.02	-49.8	40.04	40.00	-49.9	-49.8	18	1	1.419	4.754	4.242	0.33456	0.01148	
19520	40.02	-49.8	40.04	40.00	-49.8	-49.8	15	1	1.278	4.238	3.872	0.33016	0.02135	
19526	40.06	-49.9	40.08	40.04	-50.0	-49.9	2	1	4.439	1.393	1.414	0.31389	0.00803	
19526	40.06	-49.9	40.08	40.04	-49.9	-49.8	3	1	5.023	1.461	1.732	0.29001	0.02041	
19526	40.06	-49.8	40.08	40.04	-49.8	-49.8	2	1	4.374	1.354	1.414	0.30935	0.01072	
													1	
	19500 19506 19506 19506 19513 19513 19513 19520 19520 19520 19520 19526	19500       39.89         19506       39.93         19506       39.93         19506       39.93         19513       39.97         19513       39.97         19513       39.97         19520       40.02         19520       40.02         19520       40.02         19526       40.06         19526       40.06	19500       39.89       -49.9         19506       39.93       -50.0         19506       39.93       -49.9         19506       39.93       -49.8         19513       39.97       -50.0         19513       39.97       -49.9         19513       39.97       -49.9         19520       40.02       -49.9         19520       40.02       -49.8         19520       40.02       -49.8         19526       40.06       -49.9         19526       40.06       -49.9	19500       39.89       -49.9       39.91         19506       39.93       -50.0       39.95         19506       39.93       -49.9       39.95         19506       39.93       -49.8       39.95         19513       39.97       -50.0       40.00         19513       39.97       -49.9       40.00         19513       39.97       -49.9       40.00         19520       40.02       -49.9       40.04         19520       40.02       -49.8       40.04         19520       40.02       -49.8       40.04         19526       40.06       -49.9       40.08         19526       40.06       -49.9       40.08	19500       39.89       -49.9       39.91       39.87         19506       39.93       -50.0       39.95       39.91         19506       39.93       -49.9       39.95       39.91         19506       39.93       -49.8       39.95       39.91         19513       39.97       -50.0       40.00       39.95         19513       39.97       -49.9       40.00       39.95         19513       39.97       -49.9       40.00       39.95         19520       40.02       -49.9       40.04       40.00         19520       40.02       -49.9       40.04       40.00         19520       40.02       -49.8       40.04       40.00         19526       40.06       -49.9       40.08       40.04         19526       40.06       -49.9       40.08       40.04         19526       40.06       -49.9       40.08       40.04	19500       39.89       -49.9       39.91       39.87       -49.9         19506       39.93       -50.0       39.95       39.91       -50.0         19506       39.93       -49.9       39.95       39.91       -49.9         19506       39.93       -49.8       39.95       39.91       -49.9         19513       39.97       -50.0       40.00       39.95       -50.0         19513       39.97       -49.9       40.00       39.95       -49.9         19513       39.97       -49.9       40.00       39.95       -49.9         19520       40.02       -49.9       40.04       40.00       -50.0         19520       40.02       -49.9       40.04       40.00       -49.9         19520       40.02       -49.8       40.04       40.00       -49.9         19526       40.06       -49.9       40.08       40.04       -50.0         19526       40.06       -49.9       40.08       40.04       -49.9         19526       40.06       -49.8 <td>19500       39.89       -49.9       39.91       39.87       -49.9       -49.9         19506       39.93       -50.0       39.95       39.91       -50.0       -50.0         19506       39.93       -49.9       39.95       39.91       -49.9       -49.9         19506       39.93       -49.8       39.95       39.91       -49.9       -49.9         19513       39.97       -50.0       40.00       39.95       -50.0       -49.9         19513       39.97       -49.9       40.00       39.95       -49.9       -49.8         19513       39.97       -49.9       40.00       39.95       -49.9       -49.8         19520       40.02       -49.9       40.04       40.00       -50.0       -49.9         19520       40.02       -49.8       40.04       40.00       -49.9       -49.8         19520       40.02       -49.8       40.04       40.00       -49.9       -49.8         19526       40.06       -49.9       40.08       40.04       -50.0       -</td> <td>19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -50.0.       12         19506.       39.93.       -49.9.       39.95.       39.91.       -50.0.       -49.9.       14         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.8.       12         19513.       39.97.       -50.0.       40.00.       39.95.       -50.0.       -49.9.       9         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       1         19520.       40.02.       -49.9.       40.04.       40.00.       -50.0.       -49.9.       1         19520.       40.02.       -49.9.       40.04.       40.00.       -49.9.       -49.8.       18         19520.       40.02.       -49.8.       40.04.       40.00.       -49.9.       -49.8.       15         19526.       40.06.       -49.9.       40.08.       40.04.       <t< td=""><td>19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -49.9.       14       1         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.9.       17       1         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.9.       12       1         19513.       39.97.       -50.0.       40.00.       39.95.       -49.9.       -49.9.       9       1         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1         19520.       40.02.       -49.9.       40.04.       40.00.       -50.0.       -49.9.       1       1         19520.       40.02.       -49.8.       40.04.       40.00.       -49.9.       -49.8.</td><td>19500.       39.89.       -50.0.       39.91.       39.87.       -50.0.       -49.9.       18       1       1.685         19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1       1.550         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -50.0.       12       1       1.608         19506.       39.93.       -49.9.       39.95.       39.91.       -50.0.       -49.9.       14       1       1.729         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.8.       12       1       1.525         19513.       39.97.       -50.0.       40.00.       39.95.       -50.0.       -49.9.       3       1       4.918         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1       1.074         19520.       40.02.       -49.9.       40.04       40.00       -50.0.       -49.9.       1&lt;</td><td>19500.       39.89.       -50.0.       39.91.       39.87.       -50.0.       -49.9.       18       1       1.685.       6.810.         19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1       1.550.       6.121.         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -50.0.       12       1       1.608.       7.608.         19506.       39.93.       -49.9.       39.95.       39.91.       -50.0.       -49.9.       14       1       1.729.       8.091.         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863.       8.579.         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.8.       12       1       1.525.       6.802.         19513.       39.97.       -50.0.       40.00.       39.95.       -50.0.       -49.9.       3       1       4.918.       1.400.         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1       1.074.       3.657.</td><td>19500.       39.89.       -50.0.       39.91.       39.87.       -50.0.       -49.9.       18       1       1.685.       6.810.       4.242.         19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1       1.550.       6.121.       4.000.         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -49.9.       14       1       1.729.       8.091.       3.741.         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863.       8.579.       4.123.         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863.       8.579.       4.123.         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.8.       12       1       1.525.       6.802.       3.464.         19513.       39.97.       -50.0.       40.00.       39.95.       -49.9.       -49.9.       9       1       9.889.       3.279.       3.000.         19513.       39.97.       -49.9.       40.00.       39.95.<td>19500 39.8949.9.       39.91 39.8749.949.9 16       1 1.550 6.121 4.000 0.38750         19506 39.9350.0 39.95 39.9150.050.0 12       1 1.608 7.608 3.464 0.46442         19506 39.9349.9 39.95 39.9150.049.9 14       1 1.729 8.091 3.741 0.46214         19506 39.9349.9 39.95 39.9149.949.9 17       1 1.863 8.579 4.123 0.45190         19506 39.9349.8 39.95 39.9149.949.8 12       1 1.525 6.802 3.464 0.44043         19513 39.9750.0 40.00 39.9550.049.9 3       1 4.918 1.400 1.732 0.28399         19513 39.9749.9 40.00 39.9549.949.9 9       1 9.889 3.279 3.000 0.32964         19513 39.9749.9 40.00 39.9549.949.8 10       1 1.074 3.657 3.162 0.33981         19513 39.9749.9 40.00 39.9549.849.8 1       1 3.340 1.115 1.000 0.33402         19520 40.0249.9 40.04 40.0050.049.9 1       1 3.316 1.099 1.000 0.33163         19520 40.0249.9 40.04 40.0049.949.8 18       1 1.412 4.718 4.242 0.33290         19520 40.0249.8 40.04 40.0049.949.8 18       1 1.419 4.754 4.242 0.33456         19520 40.0249.8 40.04 40.0049.949.8 15       1 1.278 4.238 3.872 0.33016         19526 40.0649.9 40.</td></td></t<></td>	19500       39.89       -49.9       39.91       39.87       -49.9       -49.9         19506       39.93       -50.0       39.95       39.91       -50.0       -50.0         19506       39.93       -49.9       39.95       39.91       -49.9       -49.9         19506       39.93       -49.8       39.95       39.91       -49.9       -49.9         19513       39.97       -50.0       40.00       39.95       -50.0       -49.9         19513       39.97       -49.9       40.00       39.95       -49.9       -49.8         19513       39.97       -49.9       40.00       39.95       -49.9       -49.8         19520       40.02       -49.9       40.04       40.00       -50.0       -49.9         19520       40.02       -49.8       40.04       40.00       -49.9       -49.8         19520       40.02       -49.8       40.04       40.00       -49.9       -49.8         19526       40.06       -49.9       40.08       40.04       -50.0       -	19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -50.0.       12         19506.       39.93.       -49.9.       39.95.       39.91.       -50.0.       -49.9.       14         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.8.       12         19513.       39.97.       -50.0.       40.00.       39.95.       -50.0.       -49.9.       9         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       1         19520.       40.02.       -49.9.       40.04.       40.00.       -50.0.       -49.9.       1         19520.       40.02.       -49.9.       40.04.       40.00.       -49.9.       -49.8.       18         19520.       40.02.       -49.8.       40.04.       40.00.       -49.9.       -49.8.       15         19526.       40.06.       -49.9.       40.08.       40.04. <t< td=""><td>19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -49.9.       14       1         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.9.       17       1         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.9.       12       1         19513.       39.97.       -50.0.       40.00.       39.95.       -49.9.       -49.9.       9       1         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1         19520.       40.02.       -49.9.       40.04.       40.00.       -50.0.       -49.9.       1       1         19520.       40.02.       -49.8.       40.04.       40.00.       -49.9.       -49.8.</td><td>19500.       39.89.       -50.0.       39.91.       39.87.       -50.0.       -49.9.       18       1       1.685         19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1       1.550         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -50.0.       12       1       1.608         19506.       39.93.       -49.9.       39.95.       39.91.       -50.0.       -49.9.       14       1       1.729         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.8.       12       1       1.525         19513.       39.97.       -50.0.       40.00.       39.95.       -50.0.       -49.9.       3       1       4.918         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1       1.074         19520.       40.02.       -49.9.       40.04       40.00       -50.0.       -49.9.       1&lt;</td><td>19500.       39.89.       -50.0.       39.91.       39.87.       -50.0.       -49.9.       18       1       1.685.       6.810.         19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1       1.550.       6.121.         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -50.0.       12       1       1.608.       7.608.         19506.       39.93.       -49.9.       39.95.       39.91.       -50.0.       -49.9.       14       1       1.729.       8.091.         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863.       8.579.         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.8.       12       1       1.525.       6.802.         19513.       39.97.       -50.0.       40.00.       39.95.       -50.0.       -49.9.       3       1       4.918.       1.400.         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1       1.074.       3.657.</td><td>19500.       39.89.       -50.0.       39.91.       39.87.       -50.0.       -49.9.       18       1       1.685.       6.810.       4.242.         19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1       1.550.       6.121.       4.000.         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -49.9.       14       1       1.729.       8.091.       3.741.         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863.       8.579.       4.123.         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863.       8.579.       4.123.         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.8.       12       1       1.525.       6.802.       3.464.         19513.       39.97.       -50.0.       40.00.       39.95.       -49.9.       -49.9.       9       1       9.889.       3.279.       3.000.         19513.       39.97.       -49.9.       40.00.       39.95.<td>19500 39.8949.9.       39.91 39.8749.949.9 16       1 1.550 6.121 4.000 0.38750         19506 39.9350.0 39.95 39.9150.050.0 12       1 1.608 7.608 3.464 0.46442         19506 39.9349.9 39.95 39.9150.049.9 14       1 1.729 8.091 3.741 0.46214         19506 39.9349.9 39.95 39.9149.949.9 17       1 1.863 8.579 4.123 0.45190         19506 39.9349.8 39.95 39.9149.949.8 12       1 1.525 6.802 3.464 0.44043         19513 39.9750.0 40.00 39.9550.049.9 3       1 4.918 1.400 1.732 0.28399         19513 39.9749.9 40.00 39.9549.949.9 9       1 9.889 3.279 3.000 0.32964         19513 39.9749.9 40.00 39.9549.949.8 10       1 1.074 3.657 3.162 0.33981         19513 39.9749.9 40.00 39.9549.849.8 1       1 3.340 1.115 1.000 0.33402         19520 40.0249.9 40.04 40.0050.049.9 1       1 3.316 1.099 1.000 0.33163         19520 40.0249.9 40.04 40.0049.949.8 18       1 1.412 4.718 4.242 0.33290         19520 40.0249.8 40.04 40.0049.949.8 18       1 1.419 4.754 4.242 0.33456         19520 40.0249.8 40.04 40.0049.949.8 15       1 1.278 4.238 3.872 0.33016         19526 40.0649.9 40.</td></td></t<>	19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -49.9.       14       1         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.9.       17       1         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.9.       12       1         19513.       39.97.       -50.0.       40.00.       39.95.       -49.9.       -49.9.       9       1         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1         19520.       40.02.       -49.9.       40.04.       40.00.       -50.0.       -49.9.       1       1         19520.       40.02.       -49.8.       40.04.       40.00.       -49.9.       -49.8.	19500.       39.89.       -50.0.       39.91.       39.87.       -50.0.       -49.9.       18       1       1.685         19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1       1.550         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -50.0.       12       1       1.608         19506.       39.93.       -49.9.       39.95.       39.91.       -50.0.       -49.9.       14       1       1.729         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.8.       12       1       1.525         19513.       39.97.       -50.0.       40.00.       39.95.       -50.0.       -49.9.       3       1       4.918         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1       1.074         19520.       40.02.       -49.9.       40.04       40.00       -50.0.       -49.9.       1<	19500.       39.89.       -50.0.       39.91.       39.87.       -50.0.       -49.9.       18       1       1.685.       6.810.         19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1       1.550.       6.121.         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -50.0.       12       1       1.608.       7.608.         19506.       39.93.       -49.9.       39.95.       39.91.       -50.0.       -49.9.       14       1       1.729.       8.091.         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863.       8.579.         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.8.       12       1       1.525.       6.802.         19513.       39.97.       -50.0.       40.00.       39.95.       -50.0.       -49.9.       3       1       4.918.       1.400.         19513.       39.97.       -49.9.       40.00.       39.95.       -49.9.       -49.8.       10       1       1.074.       3.657.	19500.       39.89.       -50.0.       39.91.       39.87.       -50.0.       -49.9.       18       1       1.685.       6.810.       4.242.         19500.       39.89.       -49.9.       39.91.       39.87.       -49.9.       -49.9.       16       1       1.550.       6.121.       4.000.         19506.       39.93.       -50.0.       39.95.       39.91.       -50.0.       -49.9.       14       1       1.729.       8.091.       3.741.         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863.       8.579.       4.123.         19506.       39.93.       -49.9.       39.95.       39.91.       -49.9.       -49.9.       17       1       1.863.       8.579.       4.123.         19506.       39.93.       -49.8.       39.95.       39.91.       -49.9.       -49.8.       12       1       1.525.       6.802.       3.464.         19513.       39.97.       -50.0.       40.00.       39.95.       -49.9.       -49.9.       9       1       9.889.       3.279.       3.000.         19513.       39.97.       -49.9.       40.00.       39.95. <td>19500 39.8949.9.       39.91 39.8749.949.9 16       1 1.550 6.121 4.000 0.38750         19506 39.9350.0 39.95 39.9150.050.0 12       1 1.608 7.608 3.464 0.46442         19506 39.9349.9 39.95 39.9150.049.9 14       1 1.729 8.091 3.741 0.46214         19506 39.9349.9 39.95 39.9149.949.9 17       1 1.863 8.579 4.123 0.45190         19506 39.9349.8 39.95 39.9149.949.8 12       1 1.525 6.802 3.464 0.44043         19513 39.9750.0 40.00 39.9550.049.9 3       1 4.918 1.400 1.732 0.28399         19513 39.9749.9 40.00 39.9549.949.9 9       1 9.889 3.279 3.000 0.32964         19513 39.9749.9 40.00 39.9549.949.8 10       1 1.074 3.657 3.162 0.33981         19513 39.9749.9 40.00 39.9549.849.8 1       1 3.340 1.115 1.000 0.33402         19520 40.0249.9 40.04 40.0050.049.9 1       1 3.316 1.099 1.000 0.33163         19520 40.0249.9 40.04 40.0049.949.8 18       1 1.412 4.718 4.242 0.33290         19520 40.0249.8 40.04 40.0049.949.8 18       1 1.419 4.754 4.242 0.33456         19520 40.0249.8 40.04 40.0049.949.8 15       1 1.278 4.238 3.872 0.33016         19526 40.0649.9 40.</td>	19500 39.8949.9.       39.91 39.8749.949.9 16       1 1.550 6.121 4.000 0.38750         19506 39.9350.0 39.95 39.9150.050.0 12       1 1.608 7.608 3.464 0.46442         19506 39.9349.9 39.95 39.9150.049.9 14       1 1.729 8.091 3.741 0.46214         19506 39.9349.9 39.95 39.9149.949.9 17       1 1.863 8.579 4.123 0.45190         19506 39.9349.8 39.95 39.9149.949.8 12       1 1.525 6.802 3.464 0.44043         19513 39.9750.0 40.00 39.9550.049.9 3       1 4.918 1.400 1.732 0.28399         19513 39.9749.9 40.00 39.9549.949.9 9       1 9.889 3.279 3.000 0.32964         19513 39.9749.9 40.00 39.9549.949.8 10       1 1.074 3.657 3.162 0.33981         19513 39.9749.9 40.00 39.9549.849.8 1       1 3.340 1.115 1.000 0.33402         19520 40.0249.9 40.04 40.0050.049.9 1       1 3.316 1.099 1.000 0.33163         19520 40.0249.9 40.04 40.0049.949.8 18       1 1.412 4.718 4.242 0.33290         19520 40.0249.8 40.04 40.0049.949.8 18       1 1.419 4.754 4.242 0.33456         19520 40.0249.8 40.04 40.0049.949.8 15       1 1.278 4.238 3.872 0.33016         19526 40.0649.9 40.	

Run

Cancel

Open in SeaDAS

Apply

Load Parameters...

Store Parameters...

#### **Video Tutorials**

- Hosted on YouTube in an OBPG channel under the NASA Goddard channel
- 5-minute (or less) snippets
- Basic file (product) load and display
  - view product info
  - color manipulation
  - pixel info
  - Session Management
- Export data
  - GeoTIFF, HDF5, netCDF, flat binary (DIMAP), CSV, Shapfile, Google KML, Image formats
- View/create masks
  - Add coastline/landmask
  - create masks from data/flags
  - add geometries
- Statistics; Histogram; Scatterplot; Profile
- Band Math
- Create Filtered Bands
- Collocation Tool
- Spatial Subset Tool

- Point Data
  - Pins
  - Vector data import
  - Correlative data (ShipTrack)
  - Pixel Extraction
- Mosaic Tool
- Navigation
  - Ground Control Points
  - Attach geo-coding
- Data Processiors -one per program
- Image Analysis
  - K-Means Cluster Analysis
  - EM Cluster Analysis
  - Spectral Unmixing
  - Time-series Analysis
- OPeNDAP tool
- Graph Processing Tool

# What the future will bring

- Client/Server Processing
  - Allow local SeaDAS to run processing on a remote server
  - Provide capability for processing on Windows
- Python API for extending SeaDAS (well, BEAM, too – this is part of the BEAM 5 base)

# The ESA Sentinel Toolbox... and how it will affect SeaDAS

- One software, three toolboxes
  - one for each Sentinel mission
  - SeaDAS would be a fourth "toolbox"
- Common source code version control and code repositories for core program
- Common plug-in repositories
- Common installer software
- Common software distribution channels

## ...and thanks! go out to ...

- The SeaDAS Irregulars
  - Aynur Abdurazik
  - Matt Elliot
  - Danny Knowles
  - Don Shea
- The BEAM developers at Brockmann Consult, Hamburg, Germany

## **An Example Tutorial**

